

AMENDMENTS TO THE CLAIMS

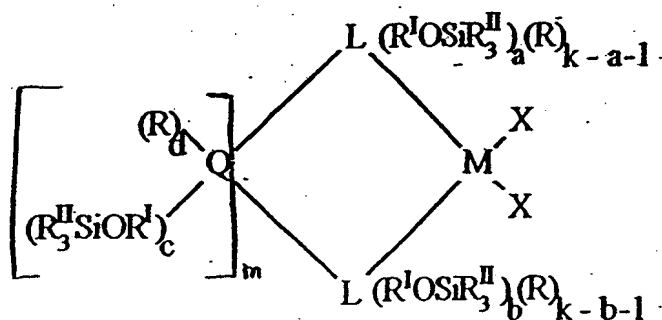
The following listing of claims replaces all prior versions and listings of claims in the above-identified U.S. patent application.

LISTING OF CLAIMS

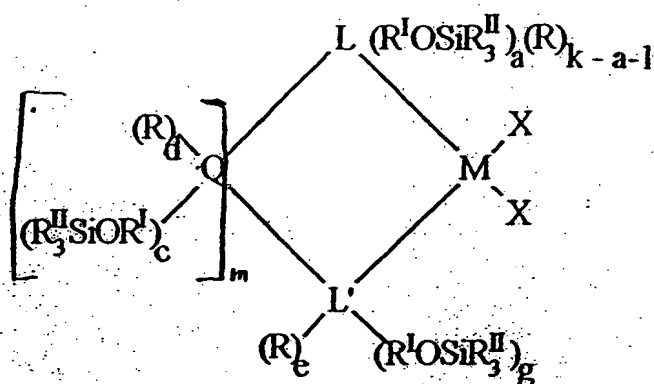
Claim 1. (currently amended) A heterogeneous catalytic composition obtained by reacting a nonfunctionalized porous inorganic support with an alumoxane and subsequently supporting at least one metallocene compound thereon, wherein the metallocene compound is defined by formula I, II, or III:



I,



II, or



III,

wherein:

the **L** groups are equal to or different from each other, wherein each **L** is selected from the group consisting of cyclopentadienyl, indenyl, tetrahydroindenyl, fluorenyl, octahydrofluorenyl, and benzoindenyl;

each **R** is independently hydrogen, linear or branched  $C_1$ - $C_{20}$  alkyl, linear or branched  $C_3$ - $C_{20}$  cycloalkyl, linear or branched  $C_6$ - $C_{20}$  aryl, linear or branched  $C_3$ - $C_{20}$  alkenyl, linear or branched  $C_7$ - $C_{20}$  arylalkyl, linear or branched  $C_7$ - $C_{20}$  alkylaryl, linear or branched  $C_8$ - $C_{20}$  arylalkenyl, or a group  $SiR^{II}_3$ , wherein the  $C_1$ - $C_{20}$  alkyl, the  $C_3$ - $C_{20}$  cycloalkyl, the  $C_6$ - $C_{20}$  aryl, the  $C_3$ - $C_{20}$  alkenyl, the  $C_7$ - $C_{20}$  arylalkyl, the  $C_7$ - $C_{20}$  alkylaryl, and the  $C_8$ - $C_{20}$  arylalkenyl are optionally substituted with 1 to 10 halogen atoms;

the **R<sup>I</sup>** groups are equal to or different from each other, wherein each **R<sup>I</sup>** is a divalent aliphatic or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, optionally containing from 1 to 5 heteroatoms of groups 14 to 16 of the Periodic Table of the Elements, and optionally containing boron; wherein the  $-OSiR^{II}_3$  group in the formula I is directly bonded to a carbon atom in the

**R<sup>I</sup>**;

each **R<sup>II</sup>** is independently linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl, linear or branched C<sub>3</sub>-C<sub>20</sub> cycloalkyl, linear or branched C<sub>6</sub>-C<sub>20</sub> aryl, linear or branched C<sub>3</sub>-C<sub>20</sub> alkenyl, linear or branched C<sub>7</sub>-C<sub>20</sub> arylalkyl, linear or branched C<sub>8</sub>-C<sub>20</sub> arylalkenyl, or linear or branched C<sub>7</sub>-C<sub>20</sub> alkylaryl;

each **Q** is independently B, C, Si, Ge, or Sn;

**M** is a lanthanide, an actinide, or a metal of group 3, 4, or 10 of the Periodic Table of the Elements, and **M** has a valence;

each **X** is independently hydrogen, chlorine, bromine, OR<sup>II</sup>, NR<sup>II</sup><sub>2</sub>, C<sub>1</sub>-C<sub>20</sub> alkyl, or C<sub>6</sub>-C<sub>20</sub> aryl;

**L'** is N or O;

when **L** is cyclopentadienyl, **k** is equal to 5; when **L** is indenyl, **k** is equal to 7; when **L** is fluorenyl or benzoindenyl, **k** is equal to 9; when **L** is tetrahydroindenyl, **k** is equal to 11; and when **L** is octahydrofluorenyl, **k** is equal to 17;

**z** is equal to 0, 1, or 2;

**x** is equal to 1, 2, or 3;

**y** is equal to 1, 2, or 3;

**x + y + z** is equal to the valence of **M**;

**m** is equal to 1, 2, 3 or 4;

**a** is an integer whose value ranges from 0 to **k-1**;

**b** is an integer whose value ranges from 0 to **k-1**;

**f** is an integer whose value ranges from 1 to **k**;

**g** is equal to 0 or 1;

**c** is equal to 0 or 1;

**e** is equal to 0 or 1;

**a + b + c** is at least 1;

**a + g + c** is at least 1;

**d** is equal to 0, 1, or 2;

when **Q** is B, then **c + d** = 1;

when **Q** is C, Si, Ge, or Sn, then **c + d** = 2;

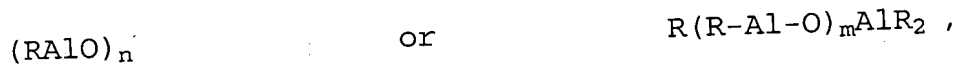
09/299,539

when  $L'$  is N, then  $g + e = 1$ ; and  
 when  $L'$  is O, then  $g = 0$  and  $e = 0$ .

Claim 2. (currently amended) The heterogeneous catalytic ~~system~~  
composition according to claim 1 wherein the group  $R^I OSiR^{II}_3$  is  $CH_2-$   
 $CH_2-OSiMe_3$ ,  $CH_2-CH_2-CH_2-OSiMe_3$ ,  $CH_2-O-CH_2-OSiMe_3$ ,  $O-CH_2-CH_2-OSiMe_3$ ,  
 $SiMe_2-CH_2-CH_2-OSiMe_3$ ,  $SiMe_2-OSiMe_3$ , or  $SiMe_2-CH_2-CH_2-CH_2-OSiMe_3$ .

Claim 3. (currently amended) The heterogeneous catalytic ~~system~~  
composition according to claim 1 wherein M is titanium, zirconium,  
 or hafnium.

Claim 4. (currently amended) The heterogeneous catalytic ~~system~~  
composition according to claim 1 wherein the alumoxane is  
 represented by a formula:



wherein  $R$  is an alkyl or an aryl group containing from 1 to 20  
 carbon atoms;  $n$  ranges from 1 to 40[,]; and  $m$  ranges from 3 to 40.

Claim 5. (currently amended) The heterogeneous catalytic ~~system~~  
composition according to claim 1 wherein the inorganic support is  
 selected from the group consisting of silica, alumina, silica  
 alumina, aluminum phosphates, and mixtures thereof.

Claim 6. (currently amended) The heterogeneous catalytic ~~system~~  
composition according to claim 1, wherein M is comprising a  
 transition metal, and wherein the transition metal comprises  
 between 0.01 and 3% by weight of the catalytic composition

09/299,539

~~catalyst system.~~

Claim 7. (currently amended) The heterogeneous catalytic ~~system~~  
composition according to claim 6 wherein the transition metal  
comprises between 0.1 and 1% by weight of the catalytic  
composition catalyst system.

Claim 8. (withdrawn) A process for polymerization of alpha  
olefins in a slurry or in a gas phase, wherein the polymerization  
is catalyzed by the heterogeneous catalytic composition of claim  
1.

Claim 9. (cancelled)

Claim 10. (currently amended) The heterogeneous catalytic  
composition as claimed in Claim 1, wherein each  $R^I$  is linear or  
branched  $C_1$ - $C_{20}$  alkylene, linear or branched  $C_3$ - $C_{20}$  cycloalkylene  
 ~~$C_3$ - $C_{20}$  cycloalkylene~~, linear or branched  $C_6$ - $C_{20}$  arylene, linear or  
branched  $C_7$ - $C_{20}$  alkenyl, linear or branched  $C_7$ - $C_{20}$ , linear or  
branched arylalkylene, linear or branched alkylarylene, or a group  
 $SiR^{II}_2$ .

Claim 11. (previously presented) The heterogeneous catalytic  
composition as claimed in Claim 1, wherein  $R^{II}$  is methyl, ethyl, or  
isopropyl.

Claim 12. (currently amended) The heterogeneous catalytic  
composition as claimed in Claim 2 ~~12~~, wherein  $R^{II}$  is methyl, ethyl,  
or isopropyl.

Claim 13. (previously presented) The heterogeneous catalytic composition as claimed in Claim 2, wherein M is titanium, zirconium, or hafnium.

Claim 14. (currently amended) The heterogeneous catalytic composition as claimed in Claim 12 ~~13~~, wherein M is titanium, zirconium, or hafnium.

Claim 15. (previously presented) The heterogeneous catalytic composition as claimed in Claim 2, wherein the alumoxane is represented by a formula:



wherein **R** is an alkyl or an aryl group containing from 1 to 20 carbon atoms; **n** ranges from 1 to 40; and **m** ranges from 3 to 40.

Claim 16. (previously presented) The heterogeneous catalytic composition as claimed in Claim 3, wherein the alumoxane is represented by a formula:



wherein **R** is an alkyl or an aryl group containing from 1 to 20 carbon atoms; **n** ranges from 1 to 40; and **m** ranges from 3 to 40.

Claim 17. (currently amended) The heterogeneous catalytic composition as claimed in Claim 12 ~~13~~, wherein the alumoxane is represented by a formula:



wherein **R** is an alkyl or an aryl group containing from 1 to 20 carbon atoms; **n** ranges from 1 to 40; and **m** ranges from 3 to 40.

Claim 18. (previously presented) The heterogeneous catalytic composition as claimed in Claim 2, wherein the inorganic support is selected from the group consisting of silica, alumina, silica alumina, aluminum phosphates, and mixtures thereof.

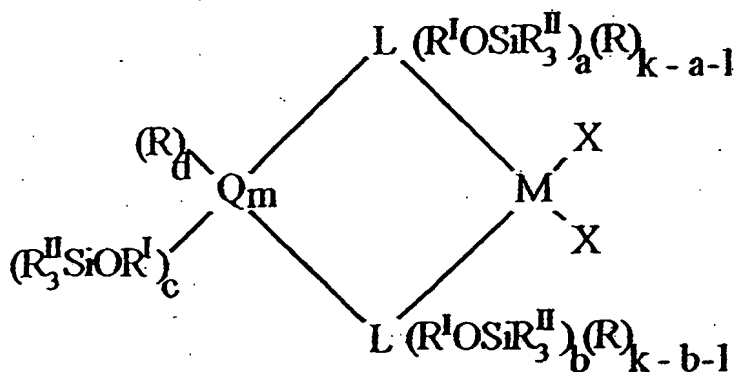
Claim 19. (cancelled)

Claim 20. (withdrawn) A process for polymerizing a monomer or a mixture of a monomer and a comonomer, wherein the process comprises: contacting the heterogeneous catalytic composition claimed in Claim 1 with the monomer or the mixture to polymerize the monomer or the mixture.

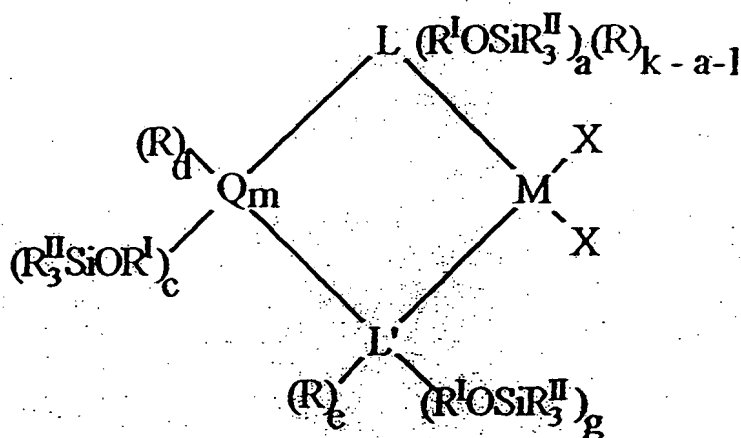
Claim 21. (currently amended) A heterogeneous catalytic system obtained by reacting a porous inorganic support selected from the group consisting of silica, alumina, silica alumina, aluminum phosphates, and mixtures thereof with an alumoxane, and then subsequently supporting at least one metallocene compound thereon, wherein the metallocene compound is defined by formula I, II, or III:



I,



II, or



III,

wherein:

the **L** groups are equal to or different from each other, wherein each **L** is selected from the group consisting of cyclopentadienyl, indenyl, tetrahydroindenyl, fluorenyl, octahydrofluorenyl, and benzoindenyl;

each **R** is independently hydrogen, linear or branched  $C_1$ - $C_{20}$  alkyl, linear or branched  $C_3$ - $C_{20}$  cycloalkyl, linear or branched  $C_6$ - $C_{20}$  aryl, linear or branched  $C_3$ - $C_{20}$  alkenyl, linear or branched  $C_7$ - $C_{20}$  arylalkyl, linear or branched  $C_7$ - $C_{20}$  alkylaryl, linear or branched  $C_8$ - $C_{20}$  arylalkenyl, or a group  $SiR^{II}_3$ , wherein the  $C_1$ - $C_{20}$  alkyl, the  $C_3$ - $C_{20}$  cycloalkyl, the  $C_6$ - $C_{20}$  aryl, the  $C_3$ - $C_{20}$  alkenyl, the  $C_7$ - $C_{20}$  arylalkyl, the  $C_7$ - $C_{20}$  alkylaryl, and the  $C_8$ - $C_{20}$  arylalkenyl are optionally substituted with 1 to 10 halogen atoms;

the **R<sup>I</sup>** groups are equal to or different from each other, wherein



each  $R^I$  is a divalent aliphatic or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, optionally containing from 1 to 5 heteroatoms of groups 14 to 16 of the Periodic Table of the Elements, and optionally containing boron; wherein the  $-OSiR^{II}_3$  group in the formula I is directly bonded to a carbon atom in the  $R^I$ ;

each  $R^{II}$  is independently linear or branched  $C_1-C_{20}$  alkyl, linear or branched  $C_3-C_{20}$  cycloalkyl, linear or branched  $C_6-C_{20}$  aryl, linear or branched  $C_3-C_{20}$  alkenyl, linear or branched  $C_7-C_{20}$  arylalkyl, linear or branched  $C_8-C_{20}$  arylalkenyl, or linear or branched  $C_7-C_{20}$  alkylaryl;

each  $Q$  is independently B, C, Si, Ge, or Sn;

$M$  is a lanthanide, an actinide, or a metal of group 3, 4, or 10 of the Periodic Table of the Elements, and  $M$  has a valence;

each  $X$  is independently hydrogen, chlorine, bromine,  $OR^{II}$ ,  $NR^{II}_2$ ,  $C_1-C_{20}$  alkyl, or  $C_6-C_{20}$  aryl;

$L'$  is N or O;

when  $L$  is cyclopentadienyl,  $k$  is equal to 5; when  $L$  is indenyl,  $k$  is equal to 7; when  $L$  is fluorenyl or benzoindenyl,  $k$  is equal to 9; when  $L$  is tetrahydroindenyl,  $k$  is equal to 11; and when  $L$  is octahydrofluorenyl,  $k$  is equal to 17;

$z$  is equal to 0, 1, or 2;

$x$  is equal to 1, 2, or 3;

$y$  is equal to 1, 2, or 3;

$x + y + z$  is equal to the valence of  $M$ ;

$m$  is equal to 1, 2, 3 or 4;

$a$  is an integer whose value ranges from 0 to  $k-1$ ;

$b$  is an integer whose value ranges from 0 to  $k-1$ ;

$f$  is an integer whose value ranges from 1 to  $k$ ;

$g$  is equal to 0 or 1;

$c$  is equal to 0 or 1;

$e$  is equal to 0 or 1;

$a + b + c$  is at least 1;  
 $a + g + c$  is at least 1;  
 $d$  is equal to 0, 1, or 2;  
when  $Q$  is B, then  $c + d = 1$ ;  
when  $Q$  is C, Si, Ge, or Sn, then  $c + d = 2$ ;  
when  $L'$  is N, then  $g + e = 1$ ; and  
when  $L'$  is O, then  $g = 0$  and  $e = 0$ .

Claim 22. (cancelled)

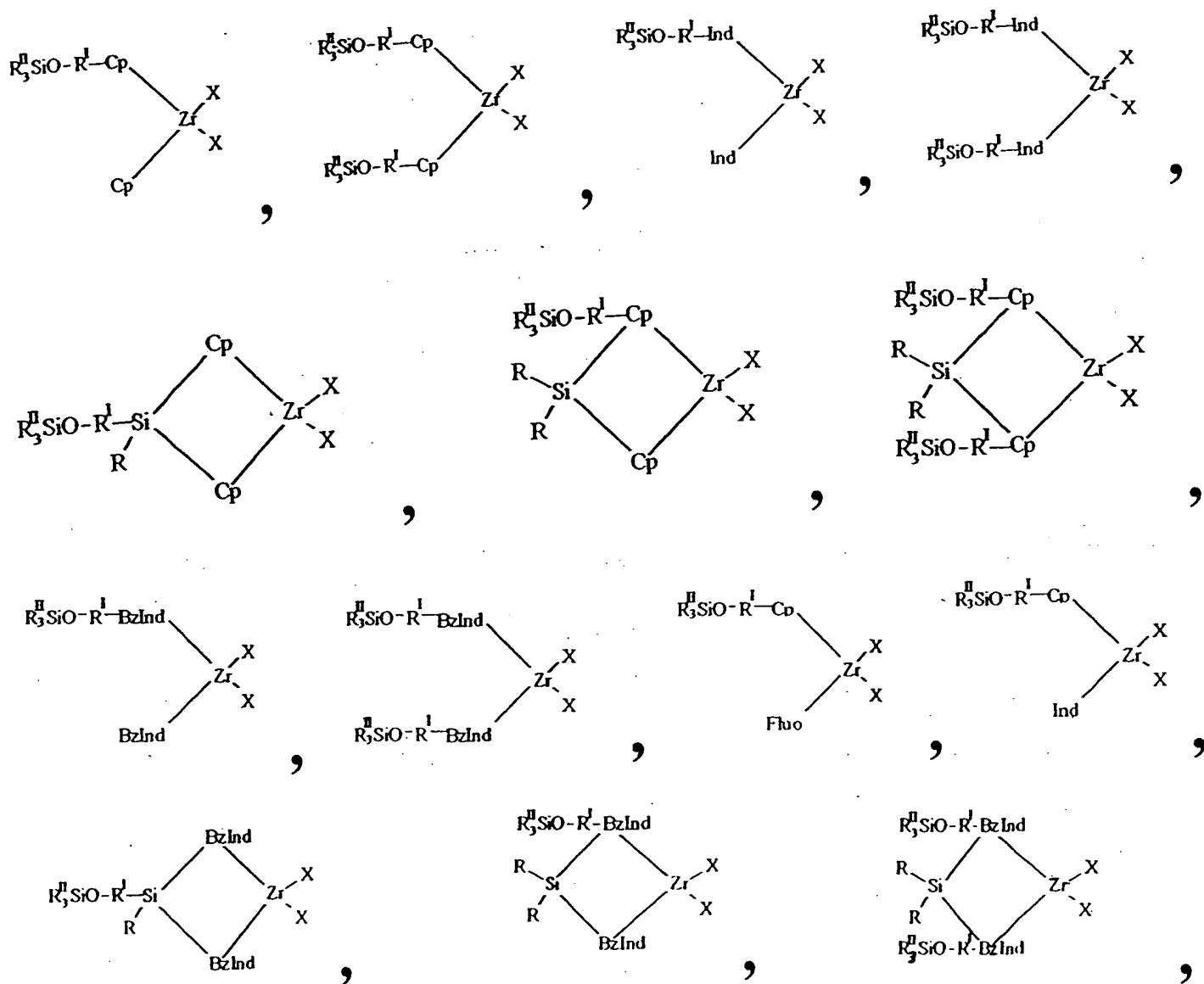
Claim 23. (currently amended) The heterogeneous catalytic composition as claimed in Claim 2, wherein the inorganic support is selected from the group consisting of silica, alumina, silica alumina, ~~aluminum phosphates~~, and mixtures thereof.

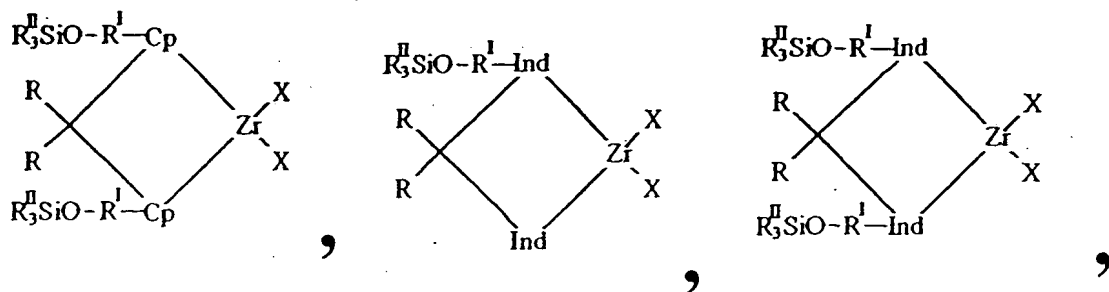
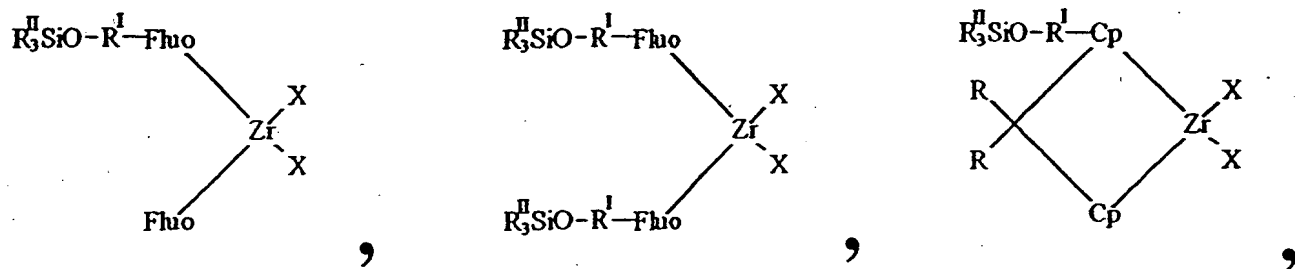
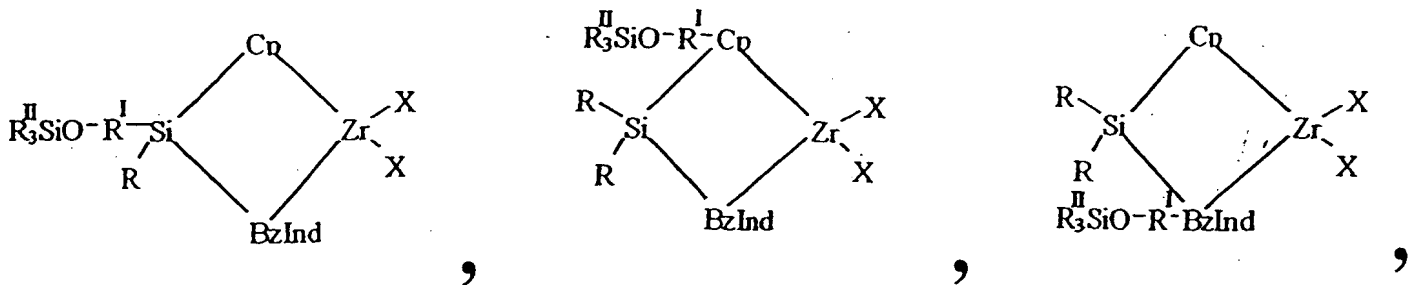
Claim 24. (previously presented) The heterogeneous catalytic composition as claimed in Claim 1, wherein  $m$  is equal to 1 or 2.

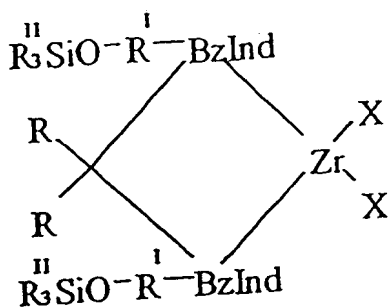
Claim 25. (previously presented) The heterogeneous catalytic system as claimed in Claim 21, wherein  $m$  is equal to 1 or 2.

Claim 26. (cancelled)

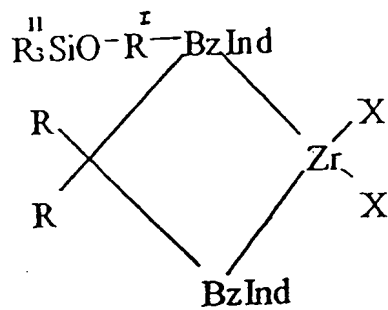
Claim 27. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is selected from the group consisting of:



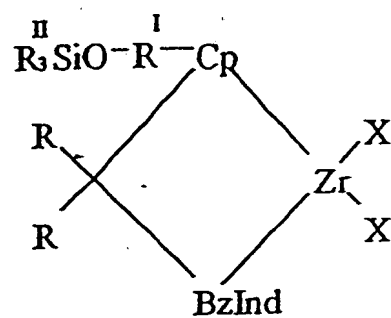




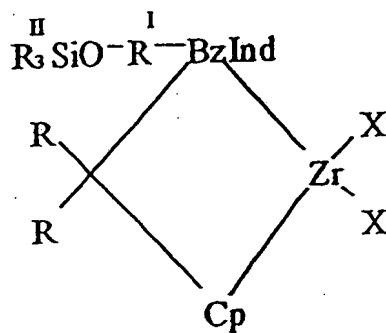
,



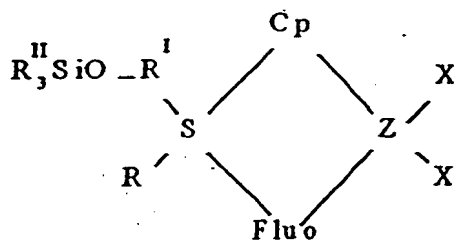
,



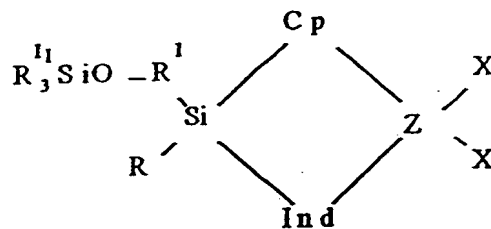
,



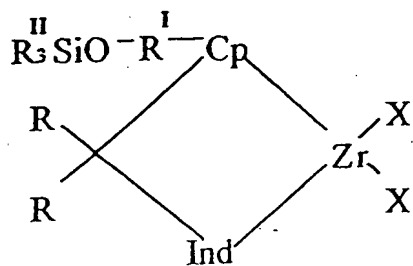
,



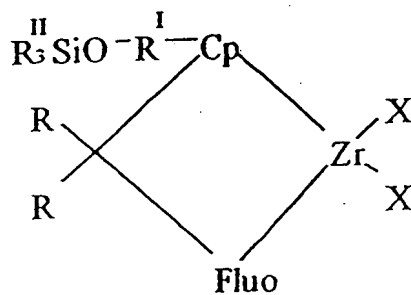
,



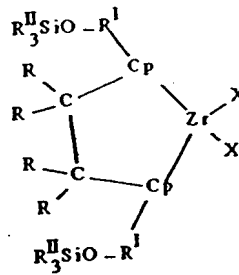
,

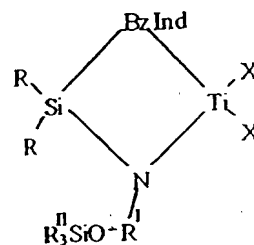
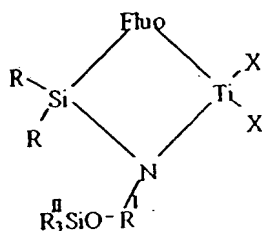
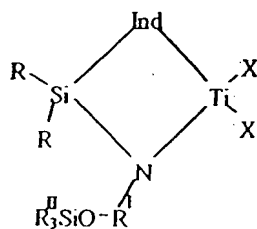
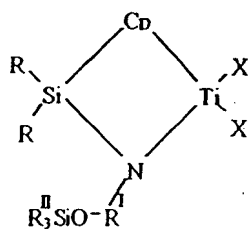
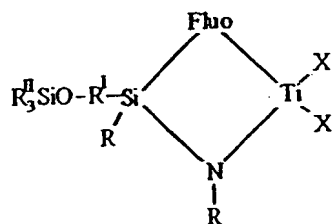
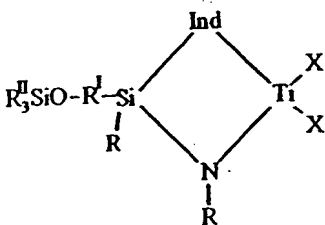
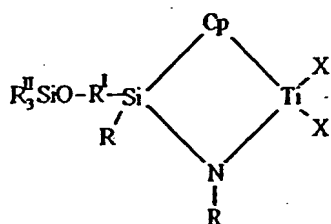
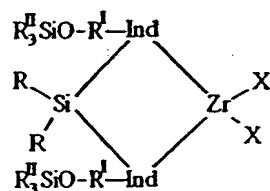
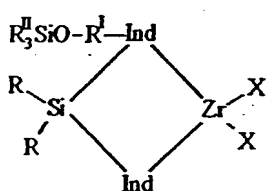
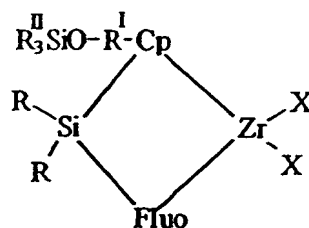
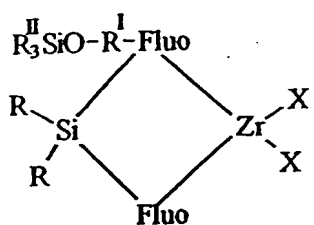
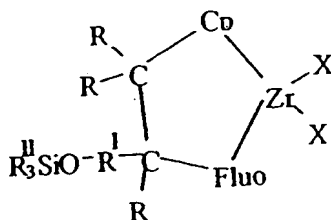


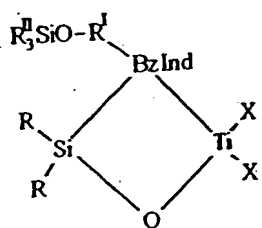
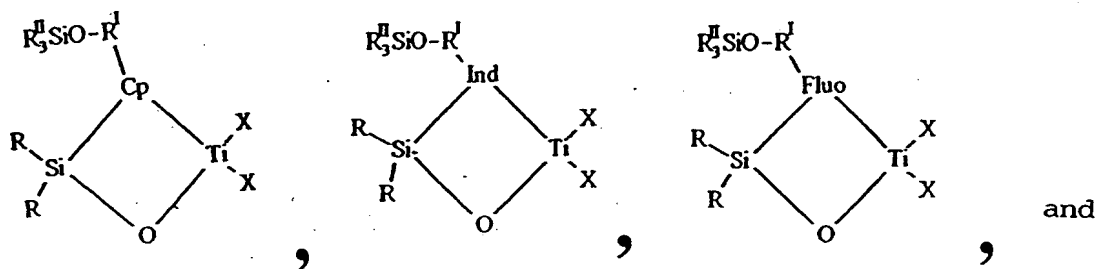
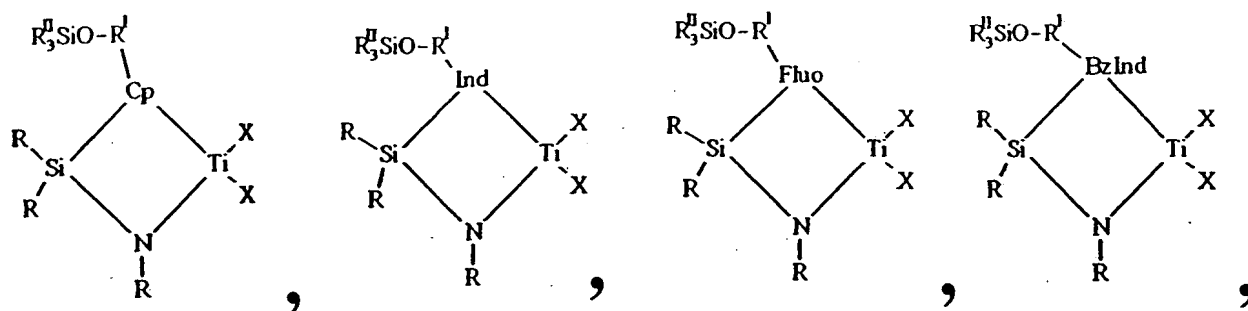
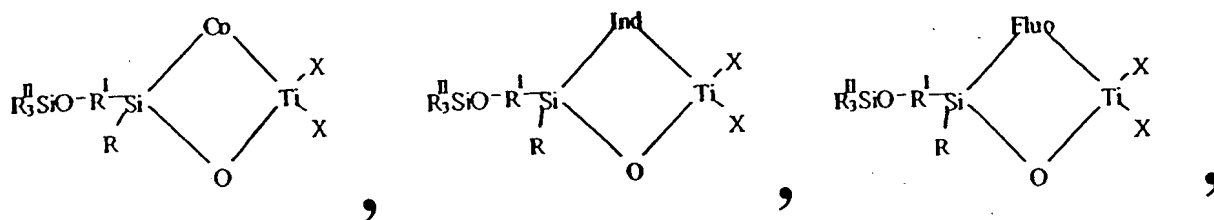
,



,







wherein Cp is a cyclopentadienyl ring that is optionally substituted with  $C_1-C_{20}$  alkyl,  $C_3-C_{20}$  cycloalkyl,  $C_6-C_{20}$  aryl,  $C_3-C_{20}$  alkenyl,  $C_7-C_{20}$  arylalkyl,  $C_8-C_{20}$  arylalkenyl, or  $C_7-C_{20}$  alkyaryl;

wherein Ind is an indenyl ring that is optionally substituted with  $C_1-C_{20}$  alkyl,  $C_3-C_{20}$  cycloalkyl,  $C_6-C_{20}$  aryl,  $C_3-C_{20}$  alkenyl,  $C_7-C_{20}$  arylalkyl,  $C_8-C_{20}$  arylalkenyl, or  $C_7-C_{20}$  alkyaryl;

wherein BzInd is a benzoindenyl ring that is optionally substituted with  $C_1-C_{20}$  alkyl,  $C_3-C_{20}$  cycloalkyl,  $C_6-C_{20}$  aryl,  $C_3-C_{20}$



09/299,539

alkenyl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, C<sub>8</sub>-C<sub>20</sub> arylalkenyl, or C<sub>7</sub>-C<sub>20</sub> alkyaryl;

and wherein Fluo is a fluorenyl ring that is optionally substituted with C<sub>1</sub>-C<sub>20</sub> alkyl, C<sub>3</sub>-C<sub>20</sub> cycloalkyl, C<sub>6</sub>-C<sub>20</sub> aryl, C<sub>3</sub>-C<sub>20</sub> alkenyl, C<sub>7</sub>-C<sub>20</sub> arylalkyl, C<sub>8</sub>-C<sub>20</sub> arylalkenyl, or C<sub>7</sub>-C<sub>20</sub> alkyaryl.

Claim 28. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is selected from the group consisting of:

bis(trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;

(trimethylsiloxyethyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride;

(trimethylsiloxyethyl-cyclopentadienyl)(indenyl) zirconium dichloride;

(trimethylsiloxyethyl-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride;

(trimethylsiloxyethyl-cyclopentadienyl)(fluorenyl) zirconium dichloride;

(trimethylsiloxyethyl-cyclopentadienyl)(9-methyl-fluorenyl) zirconium dichloride;

(trimethylsiloxyethyl-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride;

[1-(2-trimethylsiloxyethyl)indenyl] (cyclopentadienyl) zirconium dichloride;

[1-(2-methylsiloxyethyl)indenyl] (pentamethyl cyclopentadienyl) zirconium dichloride;

bis(trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride;

(trimethylsiloxypropyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride;

(trimethylsiloxypropyl-cyclopentadienyl)(indenyl) zirconium dichloride;

(trimethylsiloxypropyl-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride;  
(trimethylsiloxypropyl-cyclopentadienyl)(fluorenyl) zirconium dichloride;  
(trimethylsiloxypropyl-cyclopentadienyl)(9-methyl-fluorenyl) zirconium dichloride;  
(trimethylsiloxypropyl-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride;  
[1-(3-trimethylsiloxypropyl)indenyl](cyclopentadienyl) zirconium dichloride;

bis(trimethylsiloxy-methoxy-cyclopentadienyl) zirconium dichloride;  
(trimethylsiloxy-methoxy-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride ;  
(trimethylsiloxy-methoxy-cyclopentadienyl)(indenyl) zirconium dichloride;  
(trimethylsiloxy-methoxy-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride;  
(trimethylsiloxy-methoxy-cyclopentadienyl)(fluorenyl) zirconium dichloride;  
(trimethylsiloxy-methoxy-cyclopentadienyl)(9-methyl-fluorenyl) zirconium dichloride;  
(trimethylsiloxy-methoxy-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium  
dichloride;

bis(trimethylsiloxy-ethoxy-cyclopentadienyl) zirconium dichloride;  
(trimethylsiloxy-ethoxy-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride ;  
(trimethylsiloxy-ethoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
(trimethylsiloxy-ethoxy-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride;  
(trimethylsiloxy-ethoxy-cyclopentadienyl)(fluorenyl) zirconium dichloride;  
(trimethylsiloxy-ethoxy-cyclopentadienyl)(9-methyl-fluorenyl) zirconium dichloride;  
(trimethylsiloxy-ethoxy-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride;

bis(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl) zirconium dichloride;  
(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride;  
(trimethylsiloxy-propyl-(dimethyl)silyl-cyclopentadienyl)(cyclopentadienyl) zirconium  
dichloride;  
(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl)(indenyl) zirconium dichloride;  
(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride;  
(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl)(fluorenyl) zirconium dichloride;  
(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl)(9-methyl-fluorenyl) zirconium  
dichloride;  
(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl)(pentamethylcyclopentadienyl)  
zirconium dichloride;  
bis(trimethylsiloxy-(dimethyl)silyl-cyclopentadienyl) zirconium dichloride;

09/299,539

(trimethylsiloxy-(dimethyl)silyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride;  
dimethylsilandiylbis(2-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiylbis(3-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl) (cyclopentadienyl) zirconium  
dichloride;  
dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(cyclopentadienyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methylbenzoindenyl))  
zirconium dichloride;  
dimethylsilandiylbis(2-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiylbis(3-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl) (cyclopentadienyl) zirconium  
dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl)) (cyclopentadienyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride;

dimethylsilandiylbis(2-trimethylsiloxy-methoxy-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiylbis(3-trimethylsiloxy-methoxy-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiylbis(2-trimethylsiloxy-ethoxy-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiylbis(3-trimethylsiloxy-ethoxy-cyclopentadienyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(3-trimethylsiloxy-ethoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium

09/299,539

dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-ethoxy-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium

dichloride;

dimethylsilandiylbis(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium

dichloride;

dimethylsilandiylbis(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium

dichloride;

dimethylsilandiyl(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl)

zirconium dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl)

zirconium dichloride;

dimethylsilandiyl(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-

indenyl)) zirconium dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-

indenyl)) zirconium dichloride;

dimethylsilandiyl(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl)

zirconium dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl)

zirconium dichloride;

dimethylsilandiyl(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-

fluorenyl)) zirconium dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-

fluorenyl)) zirconium dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium

dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-(2-

methylbenzoidenyl)) zirconium dichloride;

dimethylsilandiylbis(1-(3-(trimethylsiloxy-(dimethyl)silyl)-indenyl) zirconium dichloride;

dimethylsilandiyl(1-(3-(trimethylsiloxy-(dimethyl)silyl)-indenyl) (1-indenyl)zirconium dichloride;

isopropylidenebis(2-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;

isopropylidenebis(3-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;

isopropylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;

isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;

09/299,539

isopropylidene(1-(3-trimethylsiloxyethyl-indenyl)(cyclopentadienyl) zirconium dichloride;  
isopropylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
isopropylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium  
dichloride;

isopropylidenebis(2-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride;  
isopropylidenebis(3-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride;  
isopropylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
isopropylidene(1-(3-trimethylsiloxypropyl-indenyl)(cyclopentadienyl) zirconium dichloride;  
isopropylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
isopropylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium  
dichloride;  
isopropylidenebis(2-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichloride;  
isopropylidenebis(3-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichloride;  
isopropylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
isopropylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

09/299,539

isopropylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl) zirconium dichloride;

isopropylidenebis(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride;

isopropylidenebis(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
isopropylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
isopropylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
isopropylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
isopropylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
isopropylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;  
isopropylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;  
isopropylidene(3-(trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
isopropylidene(3-(trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride;

ethylidenebis(2-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;  
ethylidenebis(3-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;  
ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl) (cyclopentadienyl) zirconium dichloride;  
ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(cyclopentadienyl) zirconium dichloride;  
ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;  
ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;



09/299,539

ethylidenebis(2-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride;  
ethylidenebis(3-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride;  
ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl) (cyclopentadienyl) zirconium dichloride;  
ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(cyclopentadienyl) zirconium dichloride;  
ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

ethylidenebis(2-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichloride;  
ethylidenebis(3-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichloride;  
ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

ethylidenebis(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl) zirconium dichloride;  
ethylidenebis(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl) zirconium dichloride;  
ethylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

09/299, 539

ethylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;  
 ethylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
 dichloride;  
 ethylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
 dichloride;  
 ethylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
 ethylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
 ethylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
 dichloride;  
 ethylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
 dichloride;

ethylidenebis(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride;  
 ethylidenebis(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride;  
 ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium  
 dichloride;  
 ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium  
 dichloride;  
 ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-indenyl))  
 zirconium dichloride;  
 ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-indenyl))  
 zirconium dichloride;  
 ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl) zirconium  
 dichloride;  
 ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl) zirconium  
 dichloride;  
 ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-fluorenyl))  
 zirconium dichloride;  
 ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-fluorenyl))  
 zirconium dichloride;

dimethylsilandiylbis(1-(2-trimethylsiloxyethyl-indenyl)) zirconium dichloride;  
 dimethylsilandiylbis(1-(3-trimethylsiloxyethyl-indenyl)) zirconium dichloride;  
 dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride;  
 dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride;

09/299,539

dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiylbis(1-(2-trimethylsiloxypropyl-indenyl)) zirconium dichloride;  
dimethylsilandiylbis(1-(3-trimethylsiloxypropyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiylbis(1-(2-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride;  
dimethylsilandiylbis(1-(3-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride;

09/299,539

dimethylsilandiyl(1-(3-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

dimethylsilandiylbis(1-(2-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;  
dimethylsilandiylbis(1-(3-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium  
dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium  
dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

dimethylsilandiylbis(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride;  
dimethylsilandiylbis(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium  
dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium  
dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl))  
zirconium dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl))  
zirconium dichloride;  
dimethylsilandiyl(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium  
dichloride;  
dimethylsilandiyl(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium  
dichloride;

09/299,539

dimethylsilandiyl(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl))

zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl))

zirconium dichloride;

isopropylidenebis(1-(2-trimethylsiloxyethyl-indenyl)) zirconium dichloride;

isopropylidenebis(1-(3-trimethylsiloxyethyl-indenyl)) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium

dichloride;

isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium

dichloride;

isopropylidenebis(1-(2-trimethylsiloxypropyl-indenyl)) zirconium dichloride;

isopropylidenebis(1-(3-trimethylsiloxypropyl-indenyl)) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium

dichloride;

isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium

dichloride;

isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium

dichloride;

isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium

dichloride;

isopropylidenebis(1-(2-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride;

isopropylidenebis(1-(3-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride;

09/299,539

isopropylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
isopropylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

isopropylidenebis(1-(2-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;  
isopropylidenebis(1-(3-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;  
isopropylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium  
dichloride;  
isopropylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
isopropylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

isopropylidenebis(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride;  
isopropylidenebis(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride;  
isopropylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium  
dichloride;  
isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium  
dichloride;  
isopropylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl))

09/299,539

zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl))

zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium

dichloride;

isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium

dichloride;

isopropylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl))

zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl))

zirconium dichloride;

ethylidenebis(1-(2-trimethylsiloxyethyl-indenyl)) zirconium dichloride;

ethylidenebis(1-(3-trimethylsiloxyethyl-indenyl)) zirconium dichloride;

ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride;

ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride;

ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(1-(2-trimethylsiloxypropyl-indenyl)) zirconium dichloride;

ethylidenebis(1-(3-trimethylsiloxypropyl-indenyl)) zirconium dichloride;

ethylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride;

ethylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(1-(2-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride;

dichloride;

ethylidene(1-(2-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dichloride;



09/299,539

ethylidenebis(1-(2-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride;  
 ethylidenebis(1-(3-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
 dichloride;  
 ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium  
 dichloride;

ethylidenebis(1-(2-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;  
 ethylidenebis(1-(3-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride;  
 ethylidenebis(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium dichloride;  
 ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium dichloride;  
 ethylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl)) zirconium  
 dichloride;  
 ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl)) zirconium  
 dichloride;  
 ethylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium  
 dichloride;

ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium dichloride;  
ethylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;  
ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilylenebis(9-(1-trimethylsiloxyethyl-fluorenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxyethyl-fluorenyl))(cyclopentadienyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-indenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxyethyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilylenebis(9-(1-trimethylsiloxypropyl-fluorenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxypropyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-indenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxypropyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilylenebis(9-(1-trimethylsiloxy-methoxy-fluorenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-indenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilylenebis(9-(1-trimethylsiloxy-ethoxy-fluorenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-indenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilylenebis(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-indenyl) zirconium dichloride;  
dimethylsilylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxyethyl-fluorenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxypropyl-fluorenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxy-methoxy-fluorenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-indenyl) zirconium dichloride;

isopropylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxy-ethoxy-fluorenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-indenyl) zirconium dichloride;  
isopropylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxyethyl-fluorenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-indenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxypropyl-fluorenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-indenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxypropyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxy-methoxy-fluorenyl)) zirconium dichloride;

ethylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-fluorenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-indenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxy-ethoxy-fluorenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-fluorenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-indenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-fluorenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-indenyl) zirconium dichloride;  
ethylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiylbis(9-fluorenyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiylbis(1-indenyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiylbis(1-(2-methylbenzoindenyl)) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiylbis(9-fluorenyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
trimethylsiloxypropyl(methyl)silandiylbis(1-indenyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium  
dichloride;

trimethylsiloxy-methoxy(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

trimethylsiloxy-ethoxy(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiylbis(cyclopentadienyl) zirconium  
dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium  
dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl))  
zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidenebis(cyclopentadienyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(1-indenyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidenebis(cyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidenebis(cyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidenebis(1-indenyl) zirconium dichloride;

1-trimethylsiloxyethyl-ethylidenebis(cyclopentadienyl) zirconium dichloride;

1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;

1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;

1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride;

1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium dichloride;

1-trimethylsiloxyethyl-ethylidenebis(1-indenyl) zirconium dichloride;

1-trimethylsiloxypropyl-ethylidenebis(cyclopentadienyl) zirconium dichloride;

1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;

1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;

1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride;

1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium dichloride;

1-trimethylsiloxypropyl-ethylidenebis(1-indenyl) zirconium dichloride;

1-trimethylsiloxy-methoxy-ethylidenebis(cyclopentadienyl) zirconium dichloride;

1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;

1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;

1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride;

1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium dichloride;

1-trimethylsiloxy-ethoxy-ethylidenebis(cyclopentadienyl) zirconium dichloride;

1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;

1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;

1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride;

1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium



dichloride;

1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidenebis(cyclopentadienyl) zirconium dichloride;

1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;

1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;

1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride;

1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(cyclopentadienyl) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-methylbenzoindenyl) titanium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxyethylcyclopentadienyl) titanium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxyethylindenyl) titanium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(cyclopentadienyl) titanium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(tetramethylcyclopentadienyl) titanium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(1-indenyl) titanium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(9-fluorenyl) titanium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(1-(2-methylbenzoindenyl) titanium

dichloride;

trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(cyclopentadienyl) titanium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) titanium  
dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium  
dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium  
dichloride;  
trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(1-(2-methylbenzoindenyl) titanium  
dichloride;

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxypropylcyclopentadienyl) titanium  
dichloride;  
(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxypropylindenyl) titanium  
dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(cyclopentadienyl) titanium  
dichloride;  
(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(tetramethylcyclopentadienyl) titanium  
dichloride;  
(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-indenyl) titanium  
dichloride;  
(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(9-fluorenyl) titanium  
dichloride;  
(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-(2-methylbenzoindenyl) titanium  
dichloride;

trimethylsiloxy-methoxy (methyl)silandiyl-(tertbutylamido)(cyclopentadienyl) titanium  
dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl)  
titanium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(cyclopentadienyl) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)-(cyclopentadienyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-  
(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(cyclopentadienyl) titanium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-indenyl) titanium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) titanium dichloride;  
trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium  
dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium dichloride;  
trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl)  
titanium dichloride;  
trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(indenyl) titanium dichloride;  
trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(2-methyl-indenyl) titanium  
dichloride;  
trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) titanium dichloride;  
trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(2-methyl-fluorenyl) titanium  
dichloride;

trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium  
dichloride;  
trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl)  
titanium dichloride;  
trimethylsiloxy-methoxy(methyl)methylen(tertbutylamido)(1-indenyl) titanium dichloride;  
trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(1-(2-methyl-indenyl)) titanium  
dichloride;  
trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-fluorenyl) titanium dichloride;  
trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-(2-methyl-fluorenyl)) titanium  
dichloride;

trimethylsiloxy-ethoxy-(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium  
dichloride;  
trimethylsiloxy-ethoxy-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl)  
titanium dichloride;  
trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(1-indenyl) titanium dichloride;  
trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(1-(2-methyl-indenyl)) titanium  
dichloride;  
trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-fluorenyl) titanium dichloride;  
trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium  
dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(cyclopentadienyl)  
titanium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl (methyl) methylene (tertbutylamido)  
(tetramethylcyclopentadienyl) titanium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(1-indenyl) titanium  
dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(1-(2-methyl-indenyl))  
titanium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) titanium  
dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(9-(2-methyl-fluorenyl))  
titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium  
dichloride;  
trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium  
dichloride;  
trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium  
dichloride;  
trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-methylbenzoindenyl) zirconium  
dichloride;

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxyethylcyclopentadienyl) zirconium  
dichloride;  
(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxyethylindenyl) zirconium  
dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(cyclopentadienyl) zirconium dichloride;  
(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(tetramethylcyclopentadienyl) zirconium  
dichloride;  
(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(1-indenyl) zirconium dichloride;  
(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(9-fluorenyl) zirconium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(1-(2-methylbenzoindenyl) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(cylopentadienyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(1-(2-methylbenzoindenyl) zirconium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxypropylcylopentadienyl) zirconium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxypropylindenyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(cylopentadienyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-indenyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(9-fluorenyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-(2-methylbenzoindenyl) zirconium dichloride;

trimethylsiloxy-methoxy (methyl)silandiyl-(tertbutylamido)(cylopentadienyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)-(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(cyclopentadienyl) zirconium dichloride;  
trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;  
trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-indenyl) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(cyclopentadienyl) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(indenyl) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(2-methyl-indenyl) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(2-methyl-fluorenyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(cyclopentadienyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(tertbutylamido)(1-indenyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylene(tertbutylamido)(cyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;



trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-fluorenyl) zirconium dichloride;  
trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(cyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl (methyl) methylene (tertbutylamido) (tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl) silandiyl-oxo(cyclopentadienyl) titanium dichloride;

trimethylsiloxyethyl(methyl) silandiyl-oxo-(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxyethyl(methyl) silandiyl-oxo(1-indenyl) titanium dichloride;

trimethylsiloxyethyl(methyl) silandiyl-oxo(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxyethyl(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride;

trimethylsiloxyethyl(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxypropyl(methyl) silandiyl-oxo(cyclopentadienyl) titanium dichloride;

trimethylsiloxypropyl(methyl) silandiyl-oxo(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxypropyl(methyl) silandiyl-oxo(1-indenyl) titanium dichloride;

trimethylsiloxypropyl(methyl) silandiyl-oxo(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxypropyl(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride;

trimethylsiloxypropyl(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-methoxy(methyl) silandiyl-oxo(cyclopentadienyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl) silandiyl-oxo(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl) silandiyl-oxo(1-indenyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl) silandiyl-oxo(1-(2-methyl-indenyl)) titanium dichloride;  
trimethylsiloxy-methoxy(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride;  
trimethylsiloxy-methoxy(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(cyclopentadienyl) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(tetramethylcyclopentadienyl) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(1-indenyl) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(1-(2-methyl-indenyl)) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride;  
trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(cyclopentadienyl) titanium  
dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(tetramethylcyclopentadienyl)  
titanium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(1-indenyl) titanium dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(1-(2-methyl-indenyl)) titanium  
dichloride;  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(fluorenyl) titanium dichloride; and  
trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(9-methylfluorenyl) titanium  
dichloride .

Claim 29. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein, prior to being reacted with the alumoxane and prior to supporting the metallocene compound, the inorganic support is not functionalized.

Claim 30. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is defined by the formula II or the formula III.

Claim 31. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein each  $R^I$  in the formula I is a divalent or aromatic hydrocarbon group containing from 1 to 20 carbon atoms and optionally containing boron.

Claim 32. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein each  $R^I$  in the formula I is a divalent or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, wherein each  $R^I$  in the formula I does not contain any boron.

Claim 33. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein  $m$  is equal to 1.

Claim 34. (previously presented) The heterogeneous catalytic system claimed in Claim 30, wherein  $m$  is equal to 1.

Claim 35. (previously presented) The heterogeneous catalytic system claimed in Claim 31, wherein  $m$  is equal to 1.

Claim 36. (previously presented) The heterogeneous catalytic system claimed in Claim 32, wherein m is equal to 1.

Claim 37. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is selected from the group consisting of:  
[(3-trimethylsiloxypropyl)methylsilylen] bis indenyl zirconium dichloride;  
[(1,1-dimethyl-1-sila-4-trimethylsiloxybutyl) cyclopentadienyl] cyclopentadienyl zirconium dichloride;  
[1-(3-trimethylsiloxypropyl)indenyl] cyclopentadienyl zirconium dichloride;  
dimethylsilylen [3-(2-trimethylsiloxyethyl)cyclopentadienyl] indenyl zirconium dichloride;  
dimethylsilylen [3-(2-trimethylsiloxyethyl)cyclopentadienyl] cyclopentadienyl zirconium dichloride;  
[1-(2-trimethylsiloxyethyl)indenyl] cyclopentadienyl zirconium dichloride;  
[1-(2-trimethylsiloxyethyl)indenyl] pentamethylcyclopentadienyl zirconium dichloride;  
(3-trimethylsiloxypropylcyclopentadienyl)(cyclopentadienyl) zirconium dichloride;  
(3-trimethylsiloxypropyl)methylsilylen]bis(1-indenyl) zirconium dichloride;  
[(1,1-dimethyl-1-sila-4-trimethylsiloxybutyl)-cyclopentadienyl] cyclopentadienyl zirconium dichloride;  
dimethylsilylen(trimethylsiloxyethyl-3-cyclopentadienyl)(1-indenyl) zirconium dichloride; and  
dimethylsilylen(trimethylsiloxyethyl-3-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride.

Claim 38. (withdrawn) A process for polymerization of alpha olefins in a slurry or in a gas phase, wherein the polymerization is catalyzed by the heterogeneous catalyst system of Claim 21.

Claim 39. (withdrawn) A process for polymerizing a monomer or a mixture of a monomer and a comonomer, wherein the process comprises: contacting the heterogeneous catalytic system claimed in Claim 21 with the monomer or the mixture to polymerize the monomer or the mixture.